


Growing together sustainably

**Cargill Premix
& Nutrition**





For the job ahead, we must raise our expectations of what's possible.

The world will have 9+ billion people by 2050

Hundreds of millions will move into the global middle class

Global food demand may increase by as much as 70 percent

Consumers will expect food that is produced safely and transparently

Climate change will be an unknown variable affecting productivity

Together, we know we can meet the challenge.

The biggest untold story in agriculture today is the incredible progress we are making in helping farmers do more while using less. Everyone in agriculture aims to raise their productivity and efficiency – not just so they can operate their businesses more profitably, but so they can steward resources for the next generation who will take over some day.

This was the mindset growing up on our family farm in Kansas, and it's the mindset today on millions of farms of all sizes around the globe. Whether you are raising a thousand head of cattle on the open range or chickens behind your home, you want to sustain your family's prosperity and serve food that nourishes the world.

Better nutrition for better lives

At Cargill, sustainability infuses every part of our business. It defines our purpose: to nourish the world in a safe, responsible and sustainable way. For decades, we have developed nutrition solutions that help animals perform better using fewer resources. This helps people everywhere access safe, nutritious protein they can trust to support an active life.

Today, cutting-edge breakthroughs and new partnerships are helping us go even further. We continue to bring more innovation and expertise into our business to fuel your sustainable growth and help you meet the demands of a changing marketplace.

As we often say in Cargill, the secret to our success is helping you achieve yours. We feel privileged to partner with you as you work to sustainably provide the food the world needs both today and tomorrow.

Chuck Warta
President, Cargill Premix & Nutrition



Who we are

- We are one of the leading premix producers in the world, with products in about 12 to 15 percent of global compound feed.
- We have 6,200 employees in 20 countries with a diverse range of skills across the field of animal nutrition.
- We combine deep nutritional expertise and a broad global reach with strong values and a passion to help you succeed.

What we offer

- We produce innovative, transformative, sustainable solutions for the animal production industry.
- Our products are specially formulated for every customer, from small operations to the largest on the planet.
- We serve a range of species, helping animals everywhere – especially early in life – achieve their full potential.

How we help our customers

- Beginning in 2019, we have set a target that all of our future innovations will have a sustainability advantage.
- Our on-farm consulting teams are trusted advisors dedicated to helping you maximize your animals' well-being and performance.
- Around the world, our animal nutrition business provided training to more than 285,000 farmers last year to help them sustainably grow their productivity.

How we show up

We operate as Cargill Premix & Nutrition, but you may know us by some of the following names.



We bring a world of expertise right to your farm so you can improve productivity, efficiency and animal well-being.



Our award-winning brand in Brazil is a specialist and leader in developing base mixes, premixes and specialties.



Our research-driven immune support products help your animals live healthier and be more productive.



Present in Poland and China, LNB has a reputation for unparalleled quality and customer focus.



Through our minority investment and commercial partnership, we market Delacon's natural, plant-based products that improve gut health and feed conversion rates while also lowering emissions.

Our value

We help our customers make their most important decisions for animal performance, well-being and sustainability.





Growing together sustainably

Agriculture has the opportunity to advance the U.N. Sustainable Development Goals. Cargill is delivering solutions to nourish the world and protect the planet.

For years, we have helped farmers to produce more while using less and to stay competitive in a fast-changing marketplace. Now, we are taking that approach even further.



"The Animal Production and Health Division of FAO assists FAO's Member States in the development of sustainable livestock systems. The Sustainable Development Goals of FAO's livestock strategy address food security and nutrition, livelihoods and growth, animal health and welfare, and natural resources and climate.

Improving livestock efficiency, reducing environmental impact, fostering women's participation,

balancing animal-source food intake to increase children's cognitive development, ending hunger and malnutrition, and translating livestock growth into faster poverty reduction are some of the direct and indirect ways the livestock sector can contribute to the Sustainable Development Goals."

Dr. Berhe Tekola
Director, Animal Production and Health, Food and Agriculture Organization of the United Nations



A rich legacy of innovation

For decades, we have helped farmers do more with their feed. From each pound of grain, our additives and precision nutrition make extra amino acids and other nutrients available for more productive, healthier animals. Last year, this increased efficiency lowered farmers’ global feed use enough to prevent more than 1.6 million tons of greenhouse gases. That’s like taking 350,000 cars off the road.*Our additives also reduce the waste of nutrients like nitrogen and phosphorous, further cutting environmental impact.

Today, our research is advancing this work. For instance, our additives may soon make new ingredients from crop byproducts or alternatives like insect meal and algae more available. And a bigger lineup of amino acids will improve formulation, raise feed conversion rates and reduce nitrogen effluent.

Other technologies hold additional promise. Our partnership with Agriness provides farmers with strong digital tools for nutrition and farm management. And our investment in computer vision pioneer Cainthus is enabling us to help farmers monitor each animal for factors that could impact health, well-being and efficiency.


*According to calculations by the U.S. Environmental Protection Agency

It all adds up to *continued confidence* that we can keep helping you *boost your results* across many dimensions.

Raising what’s possible for you


Success on your farm

Performance, well-being and sustainability excellence to power your performance and grow your operations




Core nutrition solutions

So your animals can get the most out of the feed they consume



Reduced emissions

To help you meet regulatory requirements



Animal well-being

So your animals can live well and perform to their potential

In the past decade, our solutions have improved feed efficiency rates for pigs by **10%**

Annually, our additives reduce the need for 2 million tons of rock phosphate and help prevent phosphorous discharge

Our Nugena™ line can help improve the health of cage-free laying hens, including reducing heat stress and feather pecking



Success in the value chain

Innovative sustainability solutions your customers are asking for



Sustainable ingredients

To help you produce animal protein responsibly



Reduced climate impact

To protect the planet while nourishing the world



Antibiotic stewardship

To safeguard animal and human health

Within our Neopigg® line, we can replace plant based protein that reduces impact on marine ecosystems while also improving young pig performance and health

Delacon products can lower methane from cows by up to **20%** and ammonia from chickens and pigs by up to 50%

Farmers using Diamond V products have reported cattle getting sick up to 50% less often, helping reduce the use of antibiotics and protect their efficacy

Answering the market’s call

The customers buying your animal protein want to know more about how it was raised, what it was fed and how it affected the environment, all to build a sustainable food system that serves changing consumer preferences and protects the planet. To keep a steady market for the protein you produce, you need to provide them with assurance.

That’s where we come in. We are developing a wide range of sustainable ingredients, such as plant based sources of protein for our Neopigg line that can reduce pressure on marine ecosystems. And we are exploring traceable soy and corn, as well as next-gen products from novel sources. We have reorganized our global network of scientists to identify solutions like these for emerging sustainability challenges. All of this provides you with greater flexibility.

Consumers also want to know that animals lived well, and that the protein they feed to their families is safe. Diamond V products can help strengthen animals’ immune systems. Healthier animals produce safer food and use fewer antibiotics. These products also promote pathogen risk control, helping to keep consumers even safer.

*“What a great product, because not only is it doing **great things for the animals’ lives**, it’s doing **great things for consumers’ lives, too.**”*

Joe Klute, feedlot operator in Holdrege, Nebraska, speaking about a new Diamond V product

Progress toward a sustainable food system

We are building sustainability across food and agriculture. Animal nutrition is a key component of that integrated end-to-end effort, both influencing and being influenced by other links in the chain. When you work with us, you have a partner engaged on many fronts to move forward.

Cargill's global work

To advance our global approach and achieve broad impact, Cargill has a central sustainability hub with experts on climate science, water, land use and more. This hub harnesses the full power of Cargill to serve each of our businesses as they drive sustainability across their industries. It creates connections to share and scale the best ideas in our sustainability priority areas of climate change, water resources, land use, farmer prosperity, and food loss and waste.

Central sustainability hub to scale the best ideas and advance priority sustainability areas

Supplier Code of Conduct to ensure ethical and responsible value chains

Integrated sourcing expertise across commodities worldwide to bring customers more sustainable and efficient solutions

Global partnerships with environmental organizations like The Nature Conservancy, World Wildlife Fund and World Resources Institute

Industry leadership to drive progress on key issues in a socially, economically and environmentally sustainable way

Cargill Premix & Nutrition

Within our business operations and our supply chains, Cargill Premix & Nutrition is making strides to improve efficiency, create transparency and reduce environmental impact, all while operating in a safe and responsible manner.

Spotlight on efficiency

3.7%
Improvement in energy used per ton of product
(Fiscal 2018)

2.4%
Improvement in GHG emissions per ton of product
(Fiscal 2018)

Spotlight on innovation

Our plant in India has implemented several engineering solutions that have dramatically improved water and energy use, using 13 million fewer liters of water annually and reducing environmental impact.

Spotlight on safety

In Vietnam and India, a large number of our sales professionals used to ride motorbikes while working. To keep these employees safe, we are deploying hundreds of light cars for them to drive instead and providing extensive driver training. This reduces their risk of a fatal accident by a factor of 30.



Commercial partnerships

Delacon

Our minority investment and commercial partnership with Delacon allows us to bring our customers Delacon's full range of phytogenics, or plant-based feed additives. These help animals convert more feed to protein, reduce emissions and keep animals healthier.

cainthus

Our investment in computer vision firm Cainthus enables us to work with farmers so they can monitor their animals in the production environment and respond to emerging situations to keep them performing at a top level.

AGR/NESS

Through our strategic partnership with Agriness, we are bringing swine producers a premier digital platform for managing farm production with real-time data and analysis.



We work with associations like the International Feed Industry Federation to advocate for agriculture, increase consumer trust, and improve access to tools that farmers can use to be productive, sustainable and successful over the long term.

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Strengthening communities globally

Being a responsible global citizen is one of our Guiding Principles and core to how we do business. Everywhere we operate, we look to multiply the lasting positive impact of our business with innovative partnerships, community investment and employee engagement.

Expanding knowledge of agriculture

Working with local educators, Cargill developed FoodSee University in the Netherlands to help young people understand the valuable contributions that animal agriculture makes to society.

Groups of students visiting the program – at Cargill's innovation center in Velddriel – learn first-hand from Cargill experts how livestock is raised, the importance of animal nutrition, good farming practices and the benefits of protein for their diets.

Now, FoodSee University is expanding to Turkey and Jordan, so more students can be engaged by agriculture's potential.

Investing in future leaders

A strong future for agriculture requires that we help young people see the careers that are possible in the field. Through FFA, young people develop an early commitment to agriculture and build leadership skills that will last a lifetime. Cargill is proud to be a longstanding partner of FFA, having provided nearly \$15 million in support over the years.

"National FFA values Cargill's longtime support through their sponsorship and partnership based on shared values. The nearly 60-year relationship has helped cultivate the talent pipeline for agriculture, and continues to develop future leaders that positively impact the industry and the world."

Molly Ball, president, National FFA Foundation

Hatching new hope

Billions of people in rural communities want better diets and economic development. We believe we can help them reach both, thanks to the power of poultry.

With Heifer International, we are launching the Hatching Hope Global Initiative. It will connect the nutrition expertise of Cargill with Heifer's community building to advance practical solutions with dramatic results. Poultry production scales easily, adapts to local contexts and creates nutritious protein.

Starting in India, Mexico and Kenya, Hatching Hope will improve the living income, productivity, nutrition and resilience of small-scale women farmers with training to help them expand and improve poultry production. This will have a knock-on effect of raising the amount of protein available to these farmers' families and communities. The program will also increase awareness of the value of protein in the diet through Heifer's proven community development model. Additionally, the program will ensure farmers are connected to the products, services and markets they need to grow their businesses.



We aim to improve nutrition and economic livelihoods for 100 million people by 2030.





thrive

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